SPECIFICATIONS Sealed Rechargeable Nickel Cadmium Ni-CD 1400mAh A

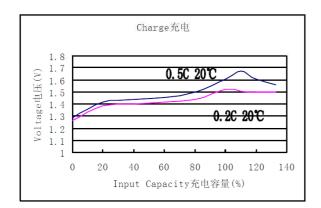
MODEL No: NCA1400 Description: 1400mAh A SIZE Ni-Cd

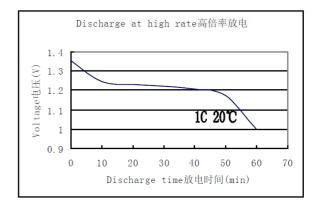
Specification

16.6±0.2 8.1±0.15

Nomi	Nominal Capacity 额定容量			
Nom	inal Volta	1.2 V		
Classes		Standard 标准	140mA	
Charge current 充电电流		Quick 快充	420mA	
		Fast 急充	700mA	
Charge time 充电时间		Standard 标准	14~16 Hrs	
		Quick 快充	4.0 Hrs	
		Fast 急充	2.5Hrs	
Ambient Temperature 使用温度	Charge 充电	Standard 标准	0°C~35°C	
		Quick 快充	10℃~35℃	
		Fast 急充	10℃~35℃	
	Discharge 放电		-30℃~60℃	
	Storage 储存		-30℃~35℃	
Internal Impedance(m Ω)		May < 25		

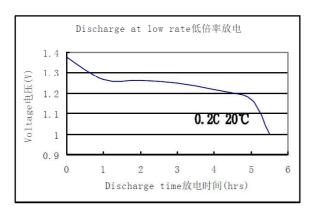
(Upon fully charge)充满电后内阻 Weight 重量

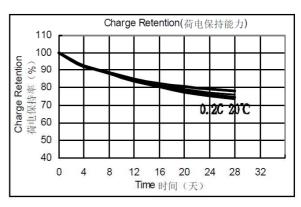




Max≤25

29.9g





Nca1400 spec 17 P.1/3

Notice: Unless duly signed and stamped, the information (subject to change without prior notice) contained herein this document is for reference only and should not be used as a criterion for product guarantee or warranty.

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2. PERFORMANCE

Unless otherwise stated, tests should be done within one month of delivery under the following conditions: Ambient Temperature: T: $20\pm5^{\circ}$ C Relative Humidity: $65\pm20\%$

Test Item		Test Con	nditions		Requirements
(1) Standard	Charge is conducted continuously for 16 hours at the constant				
Charge	current of 140mA (0.1C) after pre-discharge at the constant current of				
	280mA (0.	2C) up to a cut-off vol	tage of 1.0	V/cell	
(2) Open-circuit	Voltage between terminals of the charged battery specified in item (1)			≥1.25V	
Voltage	is measured after rest for 1 hour				
(3) Capacity	Capacity of the charged battery specified in item (1) is measured at			≥1400mAh	
(0.2C)	280mA ((0.2C) up to a cut-off	voltage of	1.0V after rest for 15	
	minutes.	If the discharge time do	esn't reach	the specified value, the	
	test may	be carried out further tw	rice, up to t	three times in total.	
(4) High rate	Discharge	time of the charged	battery sp	pecified in item (1) is	≥54minutes
discharge(1C)	measu	red at 1400mA (1C)	up to a cut-	-off voltage of 1.0V after	
	lest fo	or 15 minutes. If the	discharge	time doesn't reach the	
	specifi	ed value, the test may	be carried	out further twice, up to	
	three t	imes in total.			
(5) Fast charge	Charge: 70	0mA ×2.5hours (char	rging Cut	off =- \triangle V=5 \sim 10mV/cell	
(0.5C)	or Temp.Cu	t off=50°C)			
(6) Trickle charge	46.2mA(0.0	033C)~70 mA (0.05C)			
current					
(6) Charge	Capacity of	the charged battery sp	ecified in	item (1) is measured at	≥70%
retention	280mA (0.2	C) up to a cut-off volta	ge of 1.0V	after rest for 28 days at	
	20℃.		6	Įc.	
(7) IEC Cycle life	Cycle No	Charge	Rest	Discharge	≥500
(IEC61951-1	1	0.1C×16h	None	$0.25C \times 140$ min	
(2003) 7.4.1.1)	2-48	$0.25C \times 190$ min	None	0.25C×140min	
	49	$0.25C \times 190$ min	None	0.25C to 1.0v	
	50	0.1C×16h	1-4h	0.2C to 1.0v	
	Cycles 1 t	o so shall be repeated t	ıntil the di	scharge duration on any	
	50th cycle b	ecomes less than 3h			
(8) Accelerated	Charge: 70	Charge: 700mA (0.5C) \times 2.5 hours (charging Cut off =- \triangle \geqslant 400			≥400
cycle life	V=5~10mV	//cell or Temp.Cut of	off=50°C)	;Discharge: 1400mA	
	(1C)	to 1.0V/cell,end-of:70	0% nomina	l capacity .	
(9) Safety valve	Forced discharge is conducted for 60 minutes at a constant current of			Leakage,	
operation	1400mA (1C) after pre-discharge at a constant current of 280mA No ex			No explode or	
	(0.2C) up to	0V			disrupt

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(10)Leakage	Fully charged at 700mA (0.5C) for 2.4 hour stand for 14 days	No leakage
		nor
		deformation
(12) Vibration	Charge the battery 0.1C 16hrs,then leave for 24hrs,check	Change of
Resistance	Battery before/after vibration,	voltage should
	Amplitude 1.5mm Vibration 1100 CPM	be under
	Any direction for 110mins.	0.02V/cell,Cha
	8. 8. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	nge of
		impedance
		should be
		under 5
		milli-ohm/cell
(13) Impact	Charge the battery 0.1C 16hrs	Change of
Resistance	Then leave for 24hrs, check bat-before/after dropped,	voltage should
	Height 50cm	be under
	Wooden board(thickness 30mm)	0.02V/cell
	Direction not specified, 3 times.	Change of impedance
		should be
		under
		5
		milli-ohm/cell

3. EXTERNAL APPEARANCE

The cell/battery shall be free from cracks, scars, breakage, rust, discoloration, leakage nor deformation.

4. CAUTION

- (1) Reverse charging is not acceptable.
- (2) Charge before use. The cells/batteries are delivered in an uncharged state.
- (3) Do not charge/discharge with more than our specified current.
- (4) Do not short circuit the cell/battery Permanent damage to the cell/battery may result.
- (5) Do not incinerate or mutilate the cell/battery.
- (6) Do not solder directly to the cell/battery.
- (7) The life expectancy may be reduced if the cell/battery is subjected adverse conditions like: extreme temperature, deep cycling, excessive overcharge/ over-discharge.
- (8) Store the cell/battery uncharged in a cool dry place. Always discharge batteries before bulk storage or shipment.